Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 – 10: Cancelled

11. (New) An ozone generator, comprising:

a number of steel components including hollow cathode tubes, tubesheets, and a shell; wherein the hollow cathode tubes are disposed between oppositely disposed tubesheets, wherein each hollow cathode tube delimits an inner space through which gas may flow, wherein the hollow cathode tubes delimit a shell space that may be subjected to coolant, and wherein the steel components are made at least in part of a steel having a nickel content of less than 10% by weight and/or a molybdenum content of less than 2% by weight; and

a cooling unit provided for cooling and including an evaporator, compressor and condenser, wherein the evaporator is incorporated directly into the shell of the ozone generator.

12. (New) An ozone generator according to claim 11, wherein the steel is a ferritic chromium steel having a chromium content of 10-17% by weight.

13. (New) An ozone generator according to claim 11, wherein the steel is selected from the group of steels that have a heat conductivity of greater that 20 W/mK.

14. (New) An ozone generator according to claim 11, wherein the steel is selected from the group consisting of the following steels: 1.400 (X6Cr13), 1.4001 (X7Cr14), 1.4002 (X6CrAl13), 1.4510 (X3CrTi17).

15. (New) An ozone generator comprising:

a number of steel components including hollow cathode tubes, tubesheets, and a shell; wherein the hollow cathode tubes are disposed between oppositely disposed tubesheets,

wherein each hollow cathode tube delimits an inner space through which gas may flow, wherein the hollow cathode tubes delimit a shell space that may be subjected to coolant, and wherein the shell is made of a normal steel; and

a cooling unit provided for cooling and including an evaporator, compressor and condenser, wherein the evaporator is incorporated directly into the shell of the ozone generator.

16. (New) An ozone generator comprising:

a number of components including hollow cathode tubes, tubesheets, and a shell; wherein the hollow cathode tubes are disposed between oppositely disposed tubesheets, wherein each hollow cathode tube delimits an inner space through which gas may flow, wherein the hollow cathode tubes delimit a shell space that may be subjected to coolant, and wherein the components are made at least in part of an aluminum alloy;

a cooling unit provided for cooling and including an evaporator, compressor and condenser, wherein the evaporator is incorporated directly into the shell of the ozone generator.

17. (New) An ozone generator according to claim 11, wherein the inner space and the shell space have a pressure resistance of at least 16 bar.

18. (New) An ozone generator according to claim 11, wherein the coolant is 1,1,1,2-tetrafluoroethane (CF_3-CH_2F).

19. (New) An ozone generator according to claim 11, wherein an aerosol separator is provided between the shell space and the compressor.

20. (New) An ozone generator according to claim 11, wherein means are provided for controlling a pressure in the shell space.

21. (New) An ozone generator according to claim 15, wherein the inner space and the shell space have a pressure resistance of at least 16 bar.

22. (New) An ozone generator according to claim 15, wherein the coolant is 1,1,1,2-tetrafluoroethane (CF_3-CH_2F).

23. (New) An ozone generator according to claim 15, wherein an aerosol separator is provided between the shell space and the compressor.

24. (New) An ozone generator according to claim 15, wherein means are provided for controlling a pressure in the shell space.

25. (New) An ozone generator according to claim 16, wherein the inner space and the shell space have a pressure resistance of at least 16 bar.

26. (New) An ozone generator according to claim 16, wherein the coolant is 1,1,1,2-tetrafluoroethane (CF_3-CH_2F).

27. (New) An ozone generator according to claim 16, wherein an aerosol separator is provided between the shell space and the compressor.

28. (New) An ozone generator according to claim 16, wherein means are provided for controlling a pressure in the shell space.